Huawei Switch Fiber Optic Connection



Overview

Connect optical fibers to the optical modules on the device, matching the numbers on the optical fibers to those on the ports.

Key Takeaways

Huawei switch fiber optic interfaces can be connected using optical modules, fiber jumpers, or active optical cables (AOCs), with proper selection of fiber type, connector, and interface configuration. Types of Fiber Connections1. Active Optical Cables (AOCs): AOCs are fixed-length optical fibers with optical modules at both ends and can be directly connected to the optical ports of Huawei switches.

They are suitable for short-distance connections and can replace separate optical modules and fiber jumpers. 2. Fiber Jumpers: Fiber jumpers connect an optical module to a fiber terminal box.

The type of fiber jumper must match the optical module: use single-mode fiber jumpers for single-mode modules and multimode fiber jumpers for multimode modules. The length should be determined based on onsite cabling distance, and the connector type must match the interface type. 3.

Fiber Pigtails: Fiber pigtails are used to connect optical fibers to optical modules in fiber terminal boxes, typically for short-distance connections. They are available in single-mode and multimode types.

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Optical Module Considerations

Ensure compatibility between fiber type and optical module. Single-mode fibers cannot be used with multimode modules and vice versa. Do not use an optical module with a higher rate than the interface supports (e.g., avoid using a 10G module on a 1G port),.

Check the wavelength, received, and transmitted optical power using commands like display transceiver interface xgigabitethernet 0/0/2 verbose to ensure normal operation.

Combo Interface Configuration

Huawei switches with Combo interfaces allow a single logical interface to operate in either electrical or optical mode, but not both simultaneously. To switch to optical mode: Enter system view on the switch. Execute the command combo enable fiber to activate the optical interface.

Use undo combo enable fiber to revert to the electrical interface. Ensure the same configuration is applied on the peer device. After switching, insert a compatible GE SFP optical module to establish the connection.

Interface Split and High-

Bandwidth Connections

For high-bandwidth interfaces (e.g., 40GE on CX320 switches), the interface can be split into multiple low-bandwidth interfaces. Connections can be made using: 1-to-4 high-speed cables or 1-to-4 AOCs without optical modules. 1-to-4 optical modules and fiber for remote 10GE interfaces, ensuring wavelength compatibility.

Best Practices

Wear an anti-static wrist strap when handling optical modules. Verify that the fiber type, connector type, and module type match the switch interface. Perform a loopback test if the port does not light up to check for fiber or module issues.

For stacking switches using optical ports, follow the logical port connection rules (chain for two switches, ring for three or more),. By following these methods, Huawei switch fiber optic interfaces can be connected reliably, ensuring proper data transmission and network stability.

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Article Content

Connecting Optical Fibers

Connect optical fibers to the optical modules on the device, matching the numbers on the optical fibers to those on the ports. To connect them, align the fiber connector with the bores on the optical module

Optical Fiber

To connect a fiber, align the optical connector with the optical port and gently insert the optical fiber into the port. To remove a fiber, press the clip on the connector and pull the fiber out.

Optical Fiber

The Huawei-developed optical modules of CE series switches support two types of optical connectors: lucent connectors or local connectors (LCs) and Multi-fiber Push On (MPO) connectors.

01-08 CONNECTING SWITCHES

To connect optical fibers to an optical module, align the fiber connector with the bores on the optical module and insert the fiber connector. When you hear a click, the optical fiber is securely connected.

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This article summarizes several solutions for using optical modules with switches and common problems encountered during usage, along with specific solutions.

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How To Switch Optical/Electrical Mode On Huawei Router Combo Ports

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Moduletek offers a full range of optical transceivers compatible with Huawei switches and routers, featuring stable compatibility and reliable performance. Welcome to consult and purchase.

How To View Optical Transceiver Information On Huawei Switches

Optical transceivers are widely applied in switches, network cards, routers and other communication devices. Checking transceiver parameters allows users to monitor real-time

How to connect a new optic fibre to an ethernet switch

As we speak I just have optic fibre (Community Fibre) connected to my Huawei modem / Linksys Velop which will be connected to a new POE switch (need to identify the best model to be

Connecting Optical Modules and Optical Fibers

A router must use Huawei-certified optical modules. Non-Huawei-certified optical modules cannot ensure transmission reliability and may affect service stability. Huawei is not responsible for any problem

Installing Optical Modules and Connecting Optical Fibers

To connect optical fibers to an optical module, align the fiber connector with the bores on the optical module and insert the fiber connector. When you hear a click, the optical fiber is securely connected.

Installing Optical Transceivers and Connecting Optical Fibers

Installing Optical Transceivers and Connecting Optical Fibers This section describes how to install optical transceivers on the SFP or SFP+ ports and connect them to the ports of the peer device using

Optical Fiber Connector

To connect them together, use a PC/APC fiber jumper. This, however, will adversely affect the transmission performance. Ceramic ferrule endface requirements Different types of optical fibers

Connecting Optical Fibers

Connecting the Power Adapter Connecting DC Power Cables (OT Terminals or Quick-Connect) Connecting Ethernet Cables Connecting Optical Fibers Post-installation Checks Powering On or Off

Installing Optical Modules and Connecting Optical Fibers

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Installing Optical Modules and Connecting Optical Fibers Context Do not look into bores of optical modules or connectors of optical fibers without eye protection. The bend radius of an optical fiber

Configuring Attributes for an Optical Interface

Converted interfaces go Up after the switch restarts and the configurations delivered when the split interface is in Offline state take effect. A 40GE interface cannot be split if it has been

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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